



(11) **EP 3 496 029 A3**

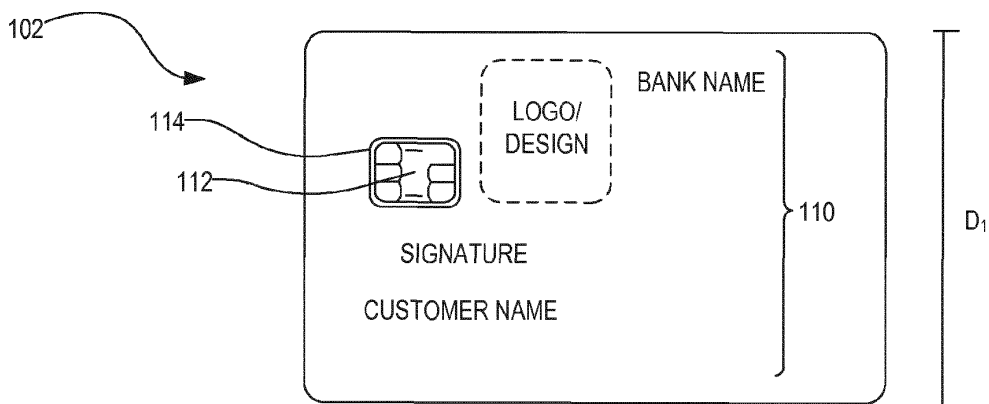
(12) **EUROPEAN PATENT APPLICATION**

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<p>(84) Designated Contracting States: <b>AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR</b> Designated Extension States: <b>BA ME</b> Designated Validation States: <b>KH MA MD TN</b></p> <p>(30) Priority: <b>05.12.2017 US 201715832333</b></p>	<p>(71) Applicant: <b>Capital One Services, LLC</b> <b>McLean, VA 22102 (US)</b></p> <p>(72) Inventors: • <b>EDWARDS, Joshua</b> <b>Philadelphia, Pennsylvania 19147 (US)</b> • <b>ZHAO, Jiawei</b> <b>Ashburn, Virginia 20147 (US)</b></p> <p>(74) Representative: <b>Finnegan Europe LLP</b> <b>1 London Bridge</b> <b>London SE1 9BG (GB)</b></p>
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(54) **SYSTEMS AND METHODS FOR CAPTURING VISIBLE INFORMATION**

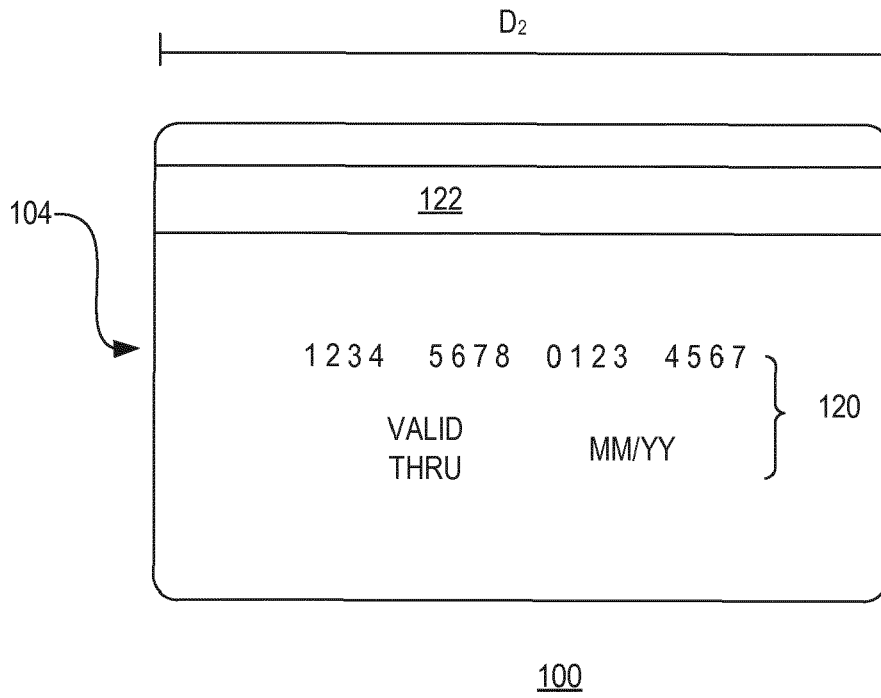
(57) A transaction card construction and computer-implemented methods for a transaction card are described. The transaction card has vector-formatted visible information applied by a laser machining system. In some embodiments, systems and methods are disclosed for enabling the sourcing of visible information using a scalable vector format. The systems and methods may receive a request to add visible information to a transaction card and capture an image of the visible information. The systems and methods may capture data representing the image. The systems and methods may also determine an ambient color saturation of the image. Further, systems and methods may translate the image based on the ambient color saturation of the image. The systems and methods may also map the translated image to a bounding box and convert the mapped image into vector format. In addition, the systems and methods may provide the converted image to a laser machining system.



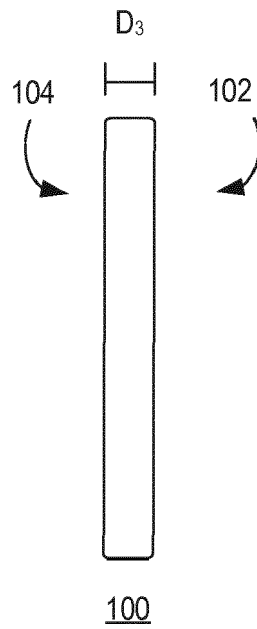
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**FIG. 1A**

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**FIG. 1B**



**FIG. 1C**



**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 62a and/or 63 of the European Patent Convention.  
This report shall be considered, for the purposes of subsequent proceedings, as the European search report

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2009/190831 A1 (VAN DER PUTTEN RONALD [US]) 30 July 2009 (2009-07-30) * abstract * * paragraphs [0002] - [0004], [0048], [0054], [0061] - [0064] * -----	1-6	INV. G06T5/00 G06T11/00
A	US 2015/248676 A1 (VAIDYANATHAN SATHISH [IN] ET AL) 3 September 2015 (2015-09-03) * paragraph [0036] * -----	1-6	TECHNICAL FIELDS SEARCHED (IPC)  G06T G06K G06Q G06F
A	US 8 494 961 B1 (LUCAS BRAD X [US] ET AL) 23 July 2013 (2013-07-23) * column 2, line 34 - line 47 * -----	1-6	
<b>INCOMPLETE SEARCH</b>			
<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search: see sheet C</p>			
Place of search <b>Munich</b>		Date of completion of the search <b>14 June 2019</b>	Examiner <b>Scholz, Volker</b>
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

EPO FORM 1503 03/82 (P04E07)



**INCOMPLETE SEARCH  
SHEET C**

Application Number  
EP 18 21 0284

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Claim(s) completely searchable:  
1-6

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Claim(s) not searched:  
7-15

Reason for the limitation of the search:

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The search has been restricted to the subject-matter indicated by the applicant in his letter of 21.05.2019 filed in reply to the invitation pursuant to Rule 62a(1), i.e. claims 1-6.

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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14-06-2019

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009190831 A1	30-07-2009	NONE	
US 2015248676 A1	03-09-2015	NONE	
US 8494961 B1	23-07-2013	US 8494961 B1 US 2013246264 A1	23-07-2013 19-09-2013

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82